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DICTIONARY FILE UPDATES: 7 NOV 2006 HIGHEST RN 912617-52-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

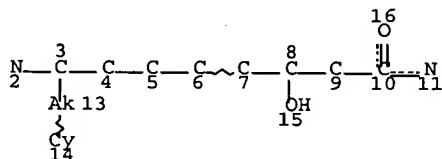
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=> d que sta l7

L5 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L7 64 SEA FILE=REGISTRY SSS FUL L5

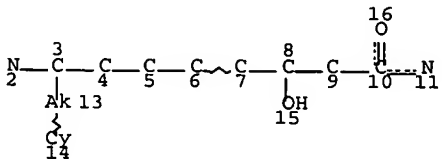
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64 ANSWERS

SEARCH TIME: 00.00.20

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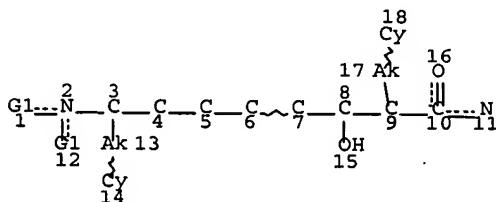
L5 STR



NODE ATTRIBUTES:
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
 L7 64 SEA FILE=REGISTRY SSS FUL L5
 L8 STR



VAR G1=AK/CY
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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 NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE
 L11 0 SEA FILE=REGISTRY SUB=L7 SSS FUL L8

100.0% PROCESSED 64 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

=> b hcap
 FILE 'HCAPLUS' ENTERED AT 15:55:41 ON 08 NOV 2006
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FILE COVERS 1907 - 8 Nov 2006 VOL 145 ISS 20
 FILE LAST UPDATED: 7 Nov 2006 (20061107/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L21 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:333687 HCAPLUS Full-text
 DN 140:339637
 TI Preparation of peptidomimetic μ -opioid receptor ligands
 IN Harrison, Bryce; Gierasch, Tiffany Malinky;
 Verdine, Gregory L.; Shi, Zhangjie
 PA President and Fellows of Harvard College, USA
 SO PCT Int. Appl., 128 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO2004033414 | A1 | 20040422 | 2003WO-US32280 | 20031010 |
| | W: | | | | |
| | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW | | | | |
| | RW: | | | | |
| | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | AU2003279953 | A1 | 20040504 | 2003AU-0279953 | 20031010 |
| | US2004254225 | A1 | 20041216 | 2003US-0683756 | 20031010 |
| PRAI | 2002US-417925P | P | 20021011 | | |
| | 2003US-443428P | P | 20030129 | | |
| | 2003WO-US32280 | W | 20031010 | | |
| OS | MARPAT 140:339637 | | | | |

AB The invention relates to peptidomimetic compds. derived from aralkyl-substituted aminodihydroxyalk(en)ic acids which are modulators of the μ -opioid receptor (MOR) and thus have therapeutic applications. The claims include compds. of general formula $R_5NCH(R_1)CH(OH)CH_2CH(R_2)CH(R_3)CH(OH)CH(R_4)CO-X-CH(R_5)R_6$ [R₂ is H₂ or a bond; X is N, O or S; R₁-R₃ are (un)substituted (hetero)arylalkyl; R₄ is H, CONR₇ (R₇ is H, alkyl, acyl or a protecting group), CONHR₇, CH₂OH, CH(OH)CH:CH₂ or CONHCH(R₁₀)CO₂H (R₁₀ is an amino acid side chain); R₅ is H, alk(en)yl, (hetero)aryl, acyl, a protecting group or COCH(R₁₀)CO₂H] or their pharmaceutically-acceptable salts. Thus, stereoisomeric H₂NCH(CH₂C₆H₄OH-p)CH(OH)CH₂CH:CHCH(OH)CH(CH₂Ph)CONHCH(CH₂Ph)CONH₂ (2) were prepared and assayed for binding affinity for MOR [8.8 ± 0.7 nM for (S,S,S,R)-2, vs. 1.2 ± 0.1 nM for endomorphin 2].

IT 479495-67-5P 479495-68-6P 479495-69-7P
 479495-70-0P 479495-71-1P 479495-72-2P
 479495-73-3P 479495-74-4P 479495-75-5P
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 479495-83-5P 479495-84-6P 479495-85-7P
 479495-86-8P 479496-03-2P 479496-04-3P
 479496-05-4P 479496-06-5P 479496-11-2P
 479496-12-3P 479496-13-4P 479496-14-5P
 479496-15-6P 479496-16-7P 479496-17-8P
 479496-18-9P 479496-19-0P 503186-38-7P
 503186-39-8P 503186-40-1P 503186-41-2P
 503186-42-3P 503186-43-4P 503186-44-5P
 503186-45-6P 503186-46-7P 503186-47-8P
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 507276-69-9P 507276-71-3P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of peptidomimetic μ -opioid receptor ligands)
 IT 680187-48-8DP, resin-bound 680187-49-9DP, resin-bound

680187-50-2DP, resin-bound 680187-51-3DP, resin-bound

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of peptidomimetic μ -opioid receptor ligands)

IT 479495-67-5P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

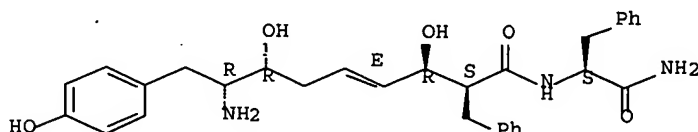
(preparation of peptidomimetic μ -opioid receptor ligands)

RN 479495-67-5 HCAPLUS

CN Benzenepropanamide, α -[(1R,2E,5R,6R)-6-amino-1,5-dihydroxy-7-(4-hydroxyphenyl)-2-heptenyl]-N-[(1S)-2-amino-2-oxo-1-(phenylmethyl)ethyl]-, (α S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



RETABLE

| Referenced Author (RAU) | Year (RPY) | VOL (RVL) | PG (RPG) | Referenced Work (RWK) | Referenced File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Gierasch | 2000 | 2 | 3999 | ORGANIC LETTERS | HCAPLUS |
| Harrison, B | 2002 | 124 | 13352 | J AM CHEM SOC | HCAPLUS |
| Harrison, B | 2003 | 46 | 677 | J MED CHEM | HCAPLUS |
| Sepracor Inc | 1999 | | | WO---9965932 A | HCAPLUS |

L21 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:110339 HCAPLUS Full-text

DN 138:297095

TI Unpredictable Stereochemical Preferences for Mu Opioid Receptor Activity in an Exhaustively Stereodiversified Library of 1,4-Enediols

AU Shi, Zhangjie; Harrison, Bryce A.; Verdine, Gregory L.

CS Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA, 02138, USA

SO Organic Letters (2003), 5(5), 633-636
CODEN: ORLEF7; ISSN: 1523-7060

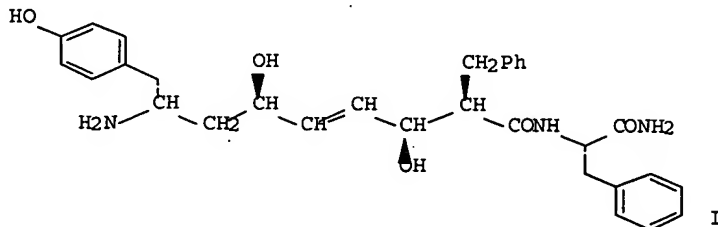
PB American Chemical Society

DT Journal

LA English

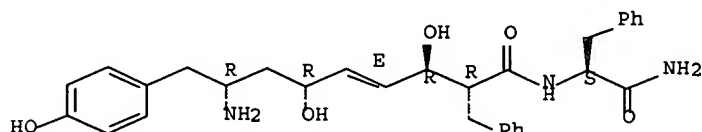
OS CASREACT 138:297095

GI



- AB Using olefin cross-metathesis, the authors synthesized a novel stereodiversified library of I containing a trans-1,4-enediol. Screening this library for mu opioid receptor (MOR) affinity identified multiple high-affinity ligands and revealed that the stereochem. configuration varied widely among those ligands having the highest affinity. It was not possible to predict the configurations of the most active I stereoisomers on the basis of the configuration of endomorphin-2, a known MOR peptide ligand, validating the diversity-based approach to ligand discovery.
- IT 507276-41-7P 507276-43-9P 507276-45-1P
507276-47-3P 507276-49-5P 507276-51-9P
507276-53-1P 507276-55-3P 507276-57-5P
507276-59-7P 507276-61-1P 507276-63-3P
507276-65-5P 507276-67-7P 507276-69-9P
507276-71-3P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(unpredictable stereochem. preferences for mu opioid receptor activity in an exhaustively stereodiversified library of enediols in relation to partial agonist activity)
- IT 507276-41-7P
RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(unpredictable stereochem. preferences for mu opioid receptor activity in an exhaustively stereodiversified library of enediols in relation to partial agonist activity)
- RN 507276-41-7 HCAPLUS
- CN Benzenepropanamide, α -[(1R,2E,4R,6R)-6-amino-1,4-dihydroxy-7-(4-hydroxyphenyl)-2-heptenyl]-N-[(1S)-2-amino-2-oxo-1-(phenylmethyl)ethyl]-, (α R)- (9CI) (CA INDEX NAME)

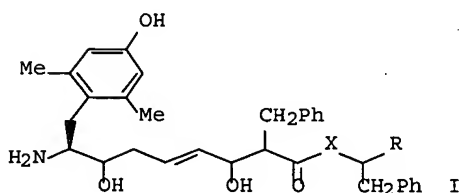
Absolute stereochemistry.
Double bond geometry as shown.



RETABLE

| Referenced Author (RAU) | Year (RPY) | VOL (RVL) | PG (RPG) | Referenced Work (RWK) | Referenced File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Blackwell, H | 2000 | 122 | 58 | J Am Chem Soc | HCAPLUS |
| Bylund, D | 1990 | | 1 | Methods in Neurotran | |
| Dooley, C | 1999 | 51 | 379 | Biopolymers | HCAPLUS |
| Furstner, A | 2000 | 39 | 3012 | Angew Chem, Int Ed | HCAPLUS |
| Gierasch, T | | | | Manuscript submitted | |
| Gierasch, T | 2000 | 2 | 3999 | Org Lett | HCAPLUS |
| Gordon, E | 1988 | 31 | 2199 | J Med Chem | HCAPLUS |
| Harrison, B | 2002 | 124 | 13352 | J Am Chem Soc | HCAPLUS |
| Harrison, B | 2001 | 3 | 2157 | Org Lett | HCAPLUS |
| Law, P | 1999 | 51 | 440 | Biopolymers | HCAPLUS |
| Michielin, O | 2002 | 124 | 11131 | J Am Chem Soc | HCAPLUS |
| Nicolaou, K | 2000 | 122 | 9954 | J Am Chem Soc | HCAPLUS |
| Pasternak, G | 2001 | 68 | 2213 | Life Sci | HCAPLUS |
| Pasternak, G | 1990 | 6 | 1 | Mod Methods Pharmacol | HCAPLUS |
| Pelish, H | 2001 | 123 | 6740 | J Am Chem Soc | HCAPLUS |
| Scholl, M | 1999 | 1 | 953 | Org Lett | HCAPLUS |
| Schreiber, S | 2000 | 287 | 1964 | Science | HCAPLUS |
| Standifer, K | 1997 | 9 | 237 | Cell Signalling | HCAPLUS |
| Stockwell, B | 2000 | 1 | 116 | Nat Rev Genet | HCAPLUS |
| Tan, D | 1998 | 120 | 8565 | J Am Chem Soc | HCAPLUS |
| Zadina, J | 1999 | 897 | 136 | Ann N Y Acad Sci | HCAPLUS |
| Zadina, J | 1997 | 386 | 499 | Nature | HCAPLUS |

L21 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:72698 HCAPLUS Full-text
 DN 138:271935
 TI 2,6-Dimethyltyrosine Analogues of a Stereodiversified Ligand Library:
 Highly Potent, Selective, Non-Peptidic μ Opioid Receptor Agonists
 AU Harrison, Bryce A.; Pasternak, Gavril W.; Verdine, Gregory
 L.
 CS Department of Chemistry and Chemical Biology, Harvard
 University, Cambridge, MA, 02138, USA
 SO Journal of Medicinal Chemistry (2003), 46(5), 677-680
 CODEN: JMCMAR; ISSN: 0022-2623
 PB American Chemical Society
 DT Journal
 LA English
 OS CASREACT 138:271935
 GI



AB The authors report the synthesis and bioactivity of enediol-based 2,6-dimethyltyrosine analogs I (X = NH, R = CONH2; X = NH, R = H; X = NH, R = CH2OH; X = O, R = CONH2; X = O, R = H; X = O, R = CH2OH) towards μ -opioid receptor. For I (X = NH, R = CONH2; X = NH, R = H), five stereoisomers of each compound were synthesized and their bioactivity evaluated, discovering certain stereoisomers with unexpected potency, selectivity, and efficacy.

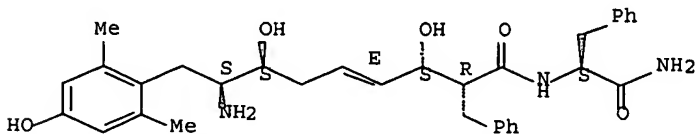
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 503186-47-8P 503186-48-9P
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
 BIOL (Biological study); PREP (Preparation)
 (asym. preparation of enediol-based nonpeptidic analogs of dimethyltyrosine
 and their evaluation as μ -opioid receptor agonists)

IT 503186-38-7P
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
 BIOL (Biological study); PREP (Preparation)
 (asym. preparation of enediol-based nonpeptidic analogs of dimethyltyrosine
 and their evaluation as μ -opioid receptor agonists)

RN 503186-38-7 HCAPLUS

CN Benzenepropanamide, α -[(1S,2E,5S,6S)-6-amino-1,5-dihydroxy-7-(4-hydroxy-2,6-dimethylphenyl)-2-heptenyl]-N-[(1S)-2-amino-2-oxo-1-(phenylmethyl)ethyl]-, (α R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry as shown.



RETABLE

| Referenced Author (RAU) | Year (RPY) | VOL (RVL) | PG (RPG) | Referenced Work (RWK) | Referenced File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Adamson, J | 1991 | 56 | 3447 | J Org Chem | HCAPLUS |
| Balboni, G | 2002 | 45 | 713 | J Med Chem | HCAPLUS |
| Blackwell, H | 2000 | 122 | 58 | J Am Chem Soc | HCAPLUS |
| Chandrakumar, N | 1992 | 35 | 223 | J Med Chem | HCAPLUS |
| Chandrakumar, N | 1992 | 35 | 2928 | J Med Chem | HCAPLUS |
| Furstner, A | 2000 | 39 | 3012 | Angew Chem, Int Ed | HCAPLUS |
| Gierasch, T | 2000 | 2 | 3999 | Org Lett | HCAPLUS |
| Hansen, D | 1992 | 35 | 684 | J Med Chem | HCAPLUS |
| Harrison, B | 2002 | 124 | 13352 | J Am Chem Soc | HCAPLUS |
| Harrison, B | 2001 | 3 | 2157 | Org Lett | HCAPLUS |
| Michielin, O | 2002 | 124 | 11131 | J Am Chem Soc | HCAPLUS |
| Nicolaou, K | 2000 | 122 | 9954 | J Am Chem Soc | HCAPLUS |
| Pasternak, G | 1990 | 6 | 1 | Mod Methods Pharmacol | HCAPLUS |
| Pelish, H | 2001 | 123 | 6740 | J Am Chem Soc | HCAPLUS |
| Pitzele, B | 1994 | 37 | 888 | J Med Chem | HCAPLUS |
| Salvadori, S | 1999 | 42 | 5010 | J Med Chem | HCAPLUS |
| Schiller, P | 2000 | 35 | 895 | Eur J Med Chem | HCAPLUS |
| Schiller, P | 1999 | 42 | 3520 | J Med Chem | HCAPLUS |
| Scholl, M | 1999 | 1 | 953 | Org Lett | HCAPLUS |
| Schreiber, S | 2000 | 287 | 1964 | Science | HCAPLUS |
| Stockwell, B | 2000 | 1 | 116 | Nat Rev Genet | HCAPLUS |
| Tan, D | 1998 | 120 | 8565 | J Am Chem Soc | HCAPLUS |
| Zadina, J | 1999 | 897 | 136 | Ann N Y Acad Sci | HCAPLUS |
| Zadina, J | 1997 | 386 | 499 | Nature | HCAPLUS |

L21 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:808520 HCAPLUS Full-text

DN 138:55660

TI High-Affinity Mu Opioid Receptor Ligands Discovered by the Screening of an Exhaustively Stereodiversified Library of 1,5-Enediols

AU Harrison, Bryce A.; Gierasch, Tiffany Malinky; Neilan, Claire; Pasternak, Gavril W.; Verdine, Gregory L.

CS Department of Chemistry and Chemical Biology, Harvard University, Cambridge, MA, 02138, USA

SO Journal of the American Chemical Society (2002), 124(45), 13352-13353
CODEN: JACSAT; ISSN: 0002-7863

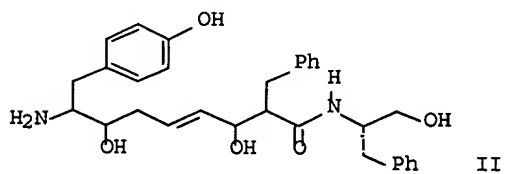
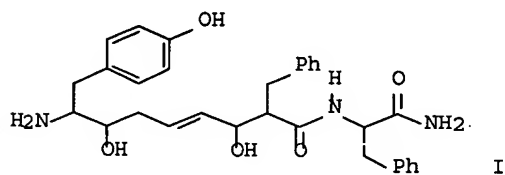
PB American Chemical Society

DT Journal

LA English

OS CASREACT 138:55660

GI



AB A stereodiversified library of all 16 stereoisomers of 1,5-enediol I was synthesized, and these compds. were screened for mu opioid receptor (MOR) binding. The stereochem. configuration of I strongly impacted the binding affinity, and (S,S,S,R)-I exhibited a K_i of 8.8 nM for MOR, comparable to that of endomorphin-2 (K_i = 1.2 nM). Moreover, compds. I exhibited 5-86-fold selectivity for MOR over delta opioid receptor (DOR) and 16-150-fold selectivity for MOR over kappa opioid receptor (KOR). Addnl., analogs of I were synthesized which showed that the trans configuration of the olefin was important for receptor binding but modifications of the C-terminal amino acid were well tolerated. Of these analogs, tetraols II are noteworthy because they retain only one of the amide bonds present in endomorphin-2, but bind MOR with an affinity of 10 nM and 110- and 600-fold selectivity for MOR over DOR and KOR. These results demonstrate the utility of stereochem. diversity in the discovery of bioactive small mols.

IT 479495-67-5P 479495-68-6P 479495-69-7P
479495-70-0P 479495-71-1P 479495-72-2P
479495-73-3P 479495-74-4P 479495-75-5P
479495-76-6P 479495-77-7P 479495-78-8P
479495-79-9P 479495-80-2P 479495-81-3P
479495-82-4P 479495-83-5P 479495-84-6P
479495-85-7P 479495-86-8P 479496-03-2P
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479496-11-2P 479496-12-3P 479496-13-4P
479496-14-5P 479496-15-6P 479496-16-7P
479496-17-8P 479496-18-9P 479496-19-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of amino(dihydroxy)nonenamides and derivs. as nonpeptidic high-affinity μ -opioid receptor ligands)

IT 479495-67-5P

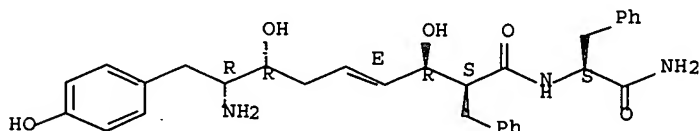
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of amino(dihydroxy)nonenamides and derivs. as nonpeptidic high-affinity μ -opioid receptor ligands)

RN 479495-67-5 HCAPLUS

CN Benzenepropanamide, α -[(1R,2E,5R,6R)-6-amino-1,5-dihydroxy-7-(4-hydroxyphenyl)-2-heptenyl]-N-[(1S)-2-amino-2-oxo-1-(phenylmethyl)ethyl]-, (α S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



RETABLE

| Referenced Author (RAU) | Year (RPY) | VOL (RVL) | PG (RPG) | Referenced Work (RWK) | Referenced File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| ===== | ===== | ===== | ===== | ===== | ===== |
| Annis, D | 1998 | 37 | 1907 | Angew Chem, Int Ed | HCAPLUS |
| Blackwell, H | 2000 | 122 | 58 | J Am Chem Soc | HCAPLUS |
| Bunin, B | 1997 | 21 | 125 | New J Chem | HCAPLUS |
| Cusack, N | 1976 | 32 | 2157 | Tetrahedron | HCAPLUS |
| Dooley, C | 1999 | 51 | 379 | Biopolymers | HCAPLUS |
| Furstner, A | 2000 | 39 | 3012 | Angew Chem, Int Ed | HCAPLUS |
| Gierasch, T | 2000 | 2 | 3999 | Org Lett | HCAPLUS |
| Harrison, B | 2001 | 3 | 2157 | Org Lett | HCAPLUS |
| Hruby, V | 1999 | 51 | 391 | Biopolymers | HCAPLUS |
| Kingsbury, C | 1999 | 3 | 497 | Curr Org Chem | HCAPLUS |
| Lacombe, P | 1998 | 39 | 6785 | Tetrahedron Lett | HCAPLUS |
| Mitchison, T | 1994 | 1 | 3 | Chem Biol | HCAPLUS |
| Nicolaou, K | 2000 | 122 | 9954 | J Am Chem Soc | HCAPLUS |

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| Pasternak, G | 2001 | 68 | 2213 | Life Sci | HCAPLUS |
| Pasternak, G | 1990 | 6 | 1 | Mod Methods Pharmacol | HCAPLUS |
| Paterson, I | 1999 | | 1003 | J Chem Soc, Perkins | HCAPLUS |
| Paterson, I | 1992 | 33 | 797 | Tetrahedron Lett | HCAPLUS |
| Scholl, M | 1999 | 1 | 953 | Org Lett | HCAPLUS |
| Schreiber, S | 1998 | 6 | 1127 | Bioorg Med Chem | HCAPLUS |
| Schreiber, S | 2000 | 287 | 1964 | Science | HCAPLUS |
| Standifer, K | 1997 | 9 | 237 | Cell Signalling | HCAPLUS |
| Stockwell, B | 2000 | 1 | 116 | Nat Rev Genet | HCAPLUS |
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=> d bib abs hitrn fhitr l22 tot

L22 ANSWER 1 OF 1 USPATFULL on STN

AN 2004:321570 USPATFULL Full-text

TI Mu opioid receptor ligands: methods of use and synthesis

IN Harrison, Bryce A., Hamilton, NJ, UNITED STATES

Gierasch, Tiffany M., Bryn Mawr, PA, UNITED STATES

Verdine, Gregory L., Newton, MA, UNITED STATES

Shi, Zhangjie, Chicago, IL, UNITED STATES

PI US2004254225 A1 20041216

AI 2003US-0683756 A1 20031010 (10)

PRAI 2002US-417925P 20021011 (60)

2003US-443428P 20030129 (60)

DT Utility

FS APPLICATION

LREP EDWARDS & ANGELL, LLP, P.O. BOX 55874, BOSTON, MA, 02205

CLMN Number of Claims: 38

ECL Exemplary Claim: 1

DRWN 4 Drawing Page(s)

LN.CNT 3735

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Novel compounds and compositions including those compounds, as well as methods of using and making the compounds are herein described. The compounds are useful in therapeutic applications, including modulation of disease or disease symptoms in a subject (e.g., mammal, human, dog, cat, horse). The compounds are useful as modulators of the mu opioid receptor (MOR) through their binding affinity with that receptor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 479495-67-5P 479495-68-6P 479495-69-7P
 479495-70-0P 479495-71-1P 479495-72-2P
 479495-73-3P 479495-74-4P 479495-75-5P
 479495-76-6P 479495-77-7P 479495-78-8P
 479495-79-9P 479495-80-2P 479495-81-3P
 479495-83-5P 479495-84-6P 479495-85-7P
 479495-86-8P 479496-03-2P 479496-04-3P
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 479496-12-3P 479496-13-4P 479496-14-5P
 479496-15-6P 479496-16-7P 479496-17-8P
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507276-51-9P 507276-53-1P 507276-55-3P
 507276-57-5P 507276-59-7P 507276-61-1P
 507276-63-3P 507276-65-5P 507276-67-7P
 507276-69-9P 507276-71-3P

(preparation of peptidomimetic μ -opioid receptor ligands)

IT 680187-48-8DP, resin-bound 680187-49-9DP, resin-bound
 680187-50-2DP, resin-bound 680187-51-3DP, resin-bound

(preparation of peptidomimetic μ -opioid receptor ligands)

IT 479495-67-5P

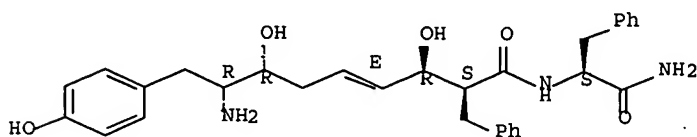
(preparation of peptidomimetic μ -opioid receptor ligands)

RN 479495-67-5 USPATFULL

CN Benzenepropanamide, α -[(1R,2E,5R,6R)-6-amino-1,5-dihydroxy-7-(4-hydroxyphenyl)-2-heptenyl]-N-[(1S)-2-amino-2-oxo-1-(phenylmethyl)ethyl]-, (α S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



=> d his

(FILE 'HOME' ENTERED AT 15:33:20 ON 08 NOV 2006)

FILE 'HCAPLUS' ENTERED AT 15:33:28 ON 08 NOV 2006

L1 1 US20040254225/PN OR (US2003-683756 OR US2002-417925# OR US2003-

FILE 'REGISTRY' ENTERED AT 15:34:31 ON 08 NOV 2006

FILE 'HCAPLUS' ENTERED AT 15:34:41 ON 08 NOV 2006

L2 TRA L1 1- RN : 155 TERMS

FILE 'REGISTRY' ENTERED AT 15:34:41 ON 08 NOV 2006

L3 155 SEA L2

L4 STR

L5 STR L4

L6 1 L5

L7 64 L5 FULL

DEL VAL756B/Q

SAV TEM L7 VAL756B/A

L8 STR L4

L9 0 L8 SAM SUB=L7

L10 63 L7 AND L3

L11 0 L8 FULL SUB=L7

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L12 4 L7

E HARRISON B/AU

L13 50 E3-4

E HARRISON BRYCE/AU

L14 8 E3-5

E GIERASCH T/AU

L15 6 E4-5

E VERDINE G/AU

L16 195 E4-7

E SHI Z/AU

L17 395 E3-24

E SHI ZHANG/AU
L18 3 E3-4
L19 26 E8
L20 88939 HARVARD/CS, PA
L21 4 L12 AND L13-20

FILE 'USPATFULL, USPAT2' ENTERED AT 15:54:52 ON 08 NOV 2006
L22 1 L7

FILE 'HCAOLD' ENTERED AT 15:56:39 ON 08 NOV 2006
L23 0 L7

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